

# INTERNATIONAL STANDARD

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**Electric vehicle conductive charging system -  
Part 23-1: DC electric vehicle supply equipment - Automated connection device**

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**Electric vehicle conductive charging system -  
Part 23-1: DC electric vehicle supply equipment -  
Automated connection device**

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IEC 61851-23-1 has been prepared by IEC technical committee 69: Electric power/energy transfer systems for electrically propelled road vehicles and industrial trucks. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
69/1127/FDIS	69/1133/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This document is to be read in conjunction with IEC 61851-23:2023 and IEC 61851-1:2017.

The clauses of particular requirements in this document supplement or modify the corresponding clauses in IEC 61851-23:2023 and IEC 61851-1:2017. Where the text of subsequent clauses indicates an "addition", an "amendment" to or a "replacement" of the relevant requirement, test specification or explanation of IEC 61851-23:2023 or IEC 61851-1:2017, these changes are made to the relevant text of IEC 61851-23:2023 or IEC 61851-1:2017, which then becomes part of this document. Where no change is necessary, the words " IEC 61851-23:2023, [clause], is applicable " are used. The new clauses which are not included in IEC 61851-23:2023 have a clause number starting from 201, for example 3.201, 201.2, etc. Replaced tables and figures are numbered starting from 201. The new annexes of this document are numbered using triple-alphabet, for example Annex AAA to avoid confusion with the annexes of IEC 61851-23:2023. If the text in this document is to be read with IEC 61851-23:2023 and IEC 61851-1:2017, the following terms are replaced:

- "vehicle coupler", as defined by IEC 61851-1:2017, with "automatic coupler" as defined in Clause 3,
- "vehicle connector", as defined by IEC 61851-1:2017, with "part of the automatic coupler mounted on the EV supply equipment", and
- "vehicle inlet", as defined by IEC 61851-1:2017, with "part of the automatic coupler mounted on the EV".

In this document, the following print types are used:

- *test specifications: italic type.*
- notes: smaller roman type.

A list of all parts in the IEC 61851 series, published under the general title *Electric vehicle conductive charging system*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under <https://webstore.iec.ch/?ref=menu> in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## INTRODUCTION

The introduction and commercialisation of electric vehicles have been accelerated in the global market, responding to the global concerns on CO<sub>2</sub> reduction and energy security. Concurrently, the development of charging infrastructure for electric vehicles has also been expanding. As a complement to the DC EV supply equipment with a vehicle connector, DC supply equipment using an automated connection device is recognized as an alternative solution for electric vehicles, for example buses and trucks.

The international standardization of charging infrastructure with an automated connection device is indispensable for the diffusion of electric vehicles, and this document is developed for the manufacturers' convenience by providing general and basic requirements for DC EV supply equipment using an automatic conductive connection to the vehicle.

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## 1 Scope

This part of IEC 61851 provides the requirements for DC EV supply equipment with an automated connection device (ACD) for conductive connection to the vehicle, with a rated maximum voltage at side A of up to 1 000 V AC or up to 1 500 V DC and a rated maximum voltage at side B up to 1 500 V DC.

NOTE 1 This document includes information on EV for conductive connection but limited to the necessary content for describing the power and signalling interface.

This document specifies the DC EV supply equipment with an automated connection device based on

- system B described in IEC 61851-23:2023, Annex BB, and
- system C described in IEC 61851-23:2023, Annex CC.

The requirements for reverse power transfer (RPT) and bidirectional power transfer (BPT) are under consideration and are not specified in this document.

EMC requirements for DC EV supply equipment are defined in IEC 61851-21-2:2018.

This document provides the general requirements for the control communication between a DC EV supply equipment and an EV.

The requirements for digital communication between DC EV supply equipment and electric vehicle for control of DC energy transfer are defined in ISO 15118-20:2022 and IEC 61851-24:2023.

This document only applies to automatic couplers of category 2, i.e. using an electro-mechanical interface: automatic coupler for an automated charging system according to IEC 63407.

This document does not apply to automatic coupler of category 1 as described in IEC TS 61851-27.

This document does not apply to automatic coupler of category 3 as described in IEC TS 61851-26.

This document does not cover all safety aspects related to maintenance.

Requirements for systems not providing simple separation or protective separation between side A and side B are under consideration.

Requirements for EV supply equipment without control of current, voltage or power are under consideration.

EV supply equipment in compliance with this document are not intended to provide energy transfer to a single EV with

- multiple vehicle connectors of the same EV supply equipment, or
- multiple EV supply equipment.

NOTE 2 Requirements for EVs mated to an EV supply equipment are specified in the ISO 5474 series.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60364-4-41:2005, *Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock*  
IEC 60364-4-41:2005/AMD1:2017

IEC 60364-5-53:2019, *Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Devices for protection for safety, isolation, switching, control and monitoring*  
IEC 60364-5-53:2019/AMD2:2024

IEC 60479-1:2018, *Effects of current on human beings and livestock - Part 1: General aspects*

IEC 60479-2:2019, *Effects of current on human beings and livestock - Part 2: Special aspects*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 61496 (all parts), *Safety of machinery - Electro-sensitive protective equipment*

IEC 61643 (all parts), *Low-voltage surge protective devices*

IEC 61643-11, *Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods*

IEC 61643-21, *Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Requirements and testing methods*

IEC 61851-1:2017, *Electric vehicle conductive charging system - Part 1: General requirements*

IEC 61851-23:2023, *Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment*

IEC 61851-24:2023, *Electric vehicle conductive charging system - Part 24: Digital communication between a DC EV supply equipment and an electric vehicle for control of DC charging*

IEC 62368-1:2023, *Audio/video, information and communication technology equipment - Part 1: Safety requirements* IEC 63407:—, *Conductive charging of electric vehicles - Contact interface for automated connection device (ACD)*<sup>1</sup>

ISO 5474-3:2024, *Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit - Part 3 DC power transfer*

ISO 6469-3:2021, *Electrically propelled road vehicles - Safety specifications - Part 3: Electrical safety*

<sup>1</sup> Under preparation. Stage at the time of publication: IEC/ACDV 63407:2025.

ISO 7010, *Graphical symbols - Safety colours and safety signs - Registered safety signs*, available at <https://www.iso.org/obp>

ISO 13849-1, *Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design*

ISO 13850, *Safety of machinery - Emergency stop function - Principles for design*

ISO 13855, *Safety of machinery - Positioning of safeguards with respect to the approach speeds of parts of the human body*

ISO 15118-2:2014, *Road vehicles - Vehicle-to-grid communication interface - Part 2: Network and application protocol requirements*

ISO 15118-3:2015, *Road vehicles - Vehicle to grid communication interface - Part 3: Physical and data link layer requirements*

ISO 15118-8:2020, *Road vehicles - Vehicle to grid communication interface - Part 8: Physical layer and data link layer requirements for wireless communication*

ISO 15118-20:2022, *Road vehicles - Vehicle to grid communication interface - Part 20: 2<sup>nd</sup> generation network layer and application layer requirements*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61851-23:2023 apply, except as follows.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

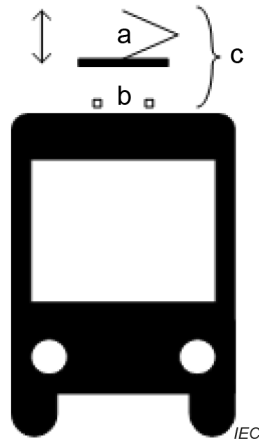
#### 3.1 electric supply equipment

*Additional terms and definitions:*

##### 3.1.201 case D

connection of an EV to a supply network utilizing an automatic coupler which has an ACD on the EV supply equipment

Note 1 to entry: See Figure 201 for an example of case D connection.



**Key**

- a automated connection device
- b ACD counterpart
- c automatic coupler

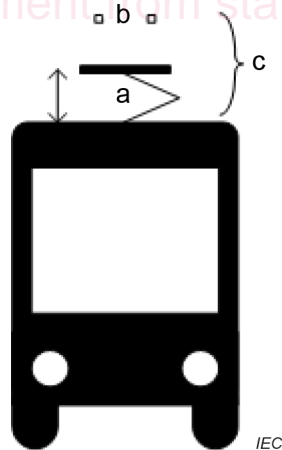
NOTE The position of the ACD is an example implementation.

**Figure 201 – Case D connection**

**3.1.202  
case E**

connection of an EV to a supply network utilizing an automatic coupler which has an ACD on the EV

Note 1 to entry: See Figure 202 for an example of case E connection.



**Key**

- a automated connection device
- b ACD counterpart
- c automatic coupler

NOTE The position of the ACD is an example implementation.

**Figure 202 – Case E connection**

**3.1.203****automated connection device****ACD**

active device where the physical connection providing an electromechanical interface between the EV supply equipment and the vehicle is made without user interaction

**3.1.204****ACD counterpart**

passive device which is used in combination with an ACD to make the physical connection providing an electromechanical interface between the EV supply equipment and the vehicle without user interaction

**3.1.205****automatic coupler**

system comprising an ACD and an ACD counterpart

**3.1.206****mechanical disconnection**

physical disconnection between ACD and ACD counterpart

**3.1.207****ground level automated connection device****glACD**

automated connection device located on ground level

**3.1.208****electro-sensitive protection equipment****ESPE**

assembly of either devices or components, or both working together for protective tripping or presence-sensing purposes and comprising as a minimum

- a sensing device,
- controlling/monitoring devices, and
- output signal switching devices or a safety-related data interface, or both

Note 1 to entry: The safety-related control system associated with the ESPE, or the ESPE itself, can further include a secondary switching device, muting functions, stopping performance monitor, etc. (see IEC 61496-1:2020, Annex A).

Note 2 to entry: A safety-related communication interface can be integrated in the same enclosure as the ESPE.

[SOURCE: IEC 61496-1:2020, 3.5, modified – The expression "and/or" has been clarified in the definition, and "may" has been replaced with "can" in Note 1 to entry.]

**3.1.209****charging device status**

state of the ACD:

- home (signal 1: active as defined in IEC 63407): position where the ACD is not engaged with its counterpart and where safe clearance is present with street and infrastructure;
- moving (signal 1 and signal 2 are inactive): ACD is between home and end position;
- end position (signal 2: active as defined in IEC 63407): position reached when the ACD and the fixed ACD counterpart have mated and when the physical contact is established, and energy transfer is allowed.

### 3.7 General terms

*Additional terms and definitions:*

#### 3.7.201

##### **arm's reach**

zone of accessibility to touch extending from any point on a surface where persons usually stand or move about to the limits which a person can reach with the hand, in any direction, without assistance

[SOURCE: IEC 60050-826:2022, 826-12-19, modified – The note to entry has been deleted.]

#### 3.7.202

##### **EV contactor**

contactor of the EV that connect the automatic coupler with the EV DC– bus

#### 3.7.203

##### **EV supply equipment contactor**

contactor of the EV supply equipment that connect the automatic coupler with the EV supply equipment DC– bus

#### 3.7.204

##### **automatic coupler of category 1**

ACD using a vehicle connector and a vehicle plug specified within IEC 62196-2, IEC 62196-3 or IEC TS 63379 as specified in IEC TS 61851-27

#### 3.7.205

##### **automatic coupler of category 2**

automatic coupler for an automated charging system according to IEC 63407

#### 3.7.206

##### **automatic coupler of category 3**

automatic coupler for an automated charging system according to IEC TS 61851-26

Note 1 to entry: IEC TS 61851-26 specifies the use of automatic coupler for both AC and DC charging.

## 4 General requirements

IEC 61851-23:2023, Clause 4, is applicable.

## 5 Classification

IEC 61851-23:2023, Clause 5, is applicable except as follows.

*Addition:*

### 5.201 Position of the ACD

- case D;
- case E.